

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,451	01/07/2005	Pasi Tormala	43480-212500	5625
26694 VENABLE LI	7590 01/10/200 P	7	EXAM	INER
P.O. BOX 343	85		MAYO,	ΓARA L
WASHINGIC	N, DC 20043-9998		ART UNIT	NIT PAPER NUMBER
•	3671			
SHORTENED STATUTORY PERIOD OF RESPONSE		MĄIL DATE	DELIVERY MODE	
3 MONTHS		01/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	
Office Action Summary		10/520,451	TORMALA ET AL.	
		Examiner	Art Unit	
	and the second s	Tara L. Mayo	3671	
Period fo	The MAILING DATE of this communic	ation appears on the cover sheet w	ith the correspondence address	
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MA Insions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communal period for reply is specified above, the maximum stature to reply within the set or extended period for reply wire properties of the provision	ILING DATE OF THIS COMMUNI 37 CFR 1.136(a). In no event, however, may a nication. Itory period will apply and will expire SIX (6) MOI III, by statute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed	on 10 October 2006		
/		n) This action is non-final.		
3)	Since this application is in condition for	<i>,</i> —	ters, prosecution as to the merits is	
-,ك	closed in accordance with the practice			
Diamasis		, , , , , , , , , , , , , , , , , , , ,	•	
· _	ion of Claims			
•	Claim(s) <u>9-34</u> is/are pending in the app	•		
	4a) Of the above claim(s) is/are	withdrawn from consideration.		
· · · · ·	Claim(s) is/are allowed.	•		
	Claim(s) <u>9-34</u> is/are rejected.			
· <u> </u>	Claim(s) is/are objected to.			
الــاره	Claim(s) are subject to restriction	· •		
Applicati	ion Papers			
9)🖂	The specification is objected to by the	Examiner.		
10)🖂	The drawing(s) filed on 10 October 200	06 is/are: a) \boxtimes accepted or b) \square o	objected to by the Examiner.	
	Applicant may not request that any objection	on to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the	ne correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).	
11)	The oath or declaration is objected to be	by the Examiner. Note the attache	d Office Action or form PTO-152.	
Priority ι	ınder 35 U.S.C. § 119			
_	Acknowledgment is made of a claim fo ☑ All b) ☐ Some * c) ☐ None of:	r foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
-/1	1. Certified copies of the priority do	ocuments have been received.		
		ocuments have been received in A	Application No.	
	3. Copies of the certified copies of			
	application from the International			
* 5	See the attached detailed Office action	for a list of the certified copies not	received.	
Attachmen	t(s)			
1) 🛛 Notic	e of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)	
1) Notice 2) Notice	• •	D-948) Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application	

Art Unit: 3671

DETAILED ACTION

Priority

1. Applicant's claim for priority based upon the international application filed in Finland and designating the United States of America is granted as the requirements set forth in 37 CFR §1.495 have been met.

Drawings

2. The drawings were received on 10 October 2006. These drawings are acceptable.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns,"

"The disclosure defined by this invention," "The disclosure describes," etc.

4. The abstract of the disclosure filed 10 October 2006 is objected to because it includes legal phraseology. Correction is required. See MPEP § 608.01(b).

Application/Control Number: 10/520,451 Page 3

Art Unit: 3671

5. The prior objections to the Specification for omitted section headings have been

overcome by the response filed 10 October 2006.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 9 through 34 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention.

With regard to claim 9, the scope of the claimed invention is indefinite because it is

unclear whether the "brake disk system" is the same as the "brake system." Applicant is advised

to use consistent claim language throughout the claims if the terms are intended to limit the same

feature of the claimed invention. For the purpose of prosecution on the merits, the Examiner has

considered the terms interchangeable; i.e., they refer to the same feature of the claimed

invention. Claim 22 is similarly rejected and interpreted.

With regard to claims 23 through 28 and 32 through 34, the scope of the claimed

invention is indefinite because the apparatus claims are dependent upon a claim.

Allowable Subject Matter

8. Claims 9 through 34 would be allowable if rewritten or amended to overcome the

rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Application/Control Number: 10/520,451 Page 4

Art Unit: 3671

9. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Conclusion

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tara L. Mayo whose telephone number is 571-272-6992. The examiner can normally be reached on Monday through Friday 8:30 AM to 5:00 PM.

Application/Control Number: 10/520,451

Art Unit: 3671

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Page 5

supervisor, Thomas B. Will can be reached on 571-272-6998. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

tlm

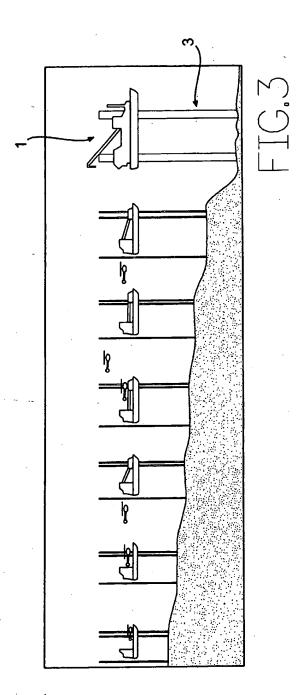
06 January 2007

TARA L MAYO

PATENT EXAMINER

Replacement Sheet

3/7



Appln. No. 10/520,451 Response Dated: 10/10/2006 Reply to Office Action of April 7, 2006



Replacement Sheet

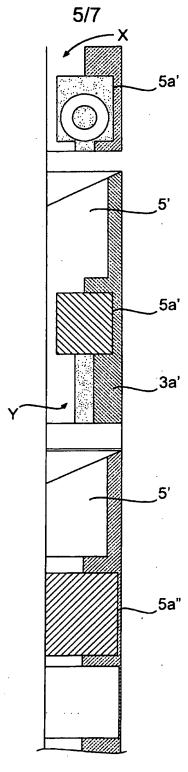
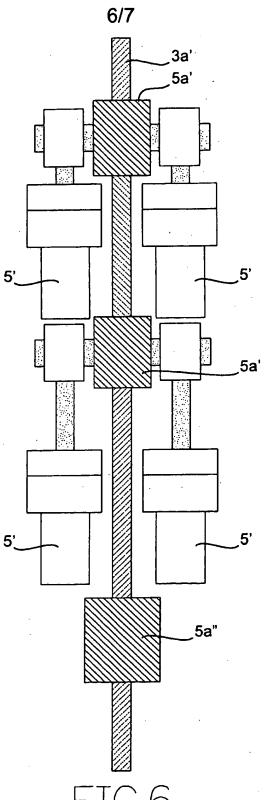


FIG.5

Appln. No. 10/520,451 Response Dated: 10/10/2006 Reply to Office Action of April 7, 2006



Replacement Sheet



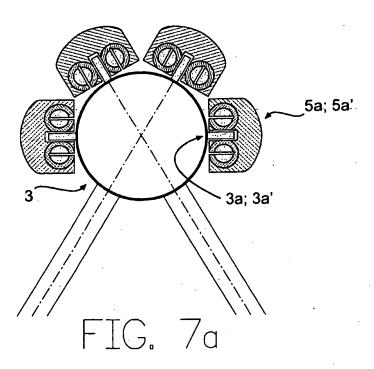
Appln. No. 10/520,451 Response Dated: 10/10/2006 Reply to Office Action of April 7, 2006

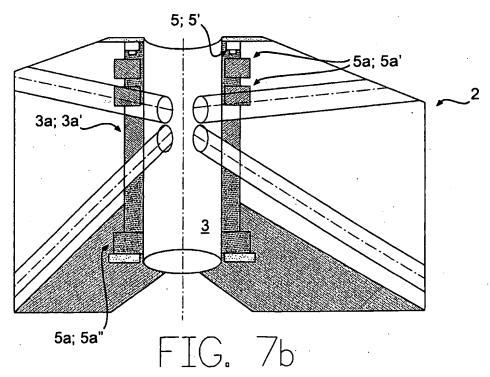
FIG.6

Appropriate OFF TO 1006 M

Replacement Sheet

7/7





Appln. No. 10/520,451 Response Dated: 10/10/2006 Reply to Office Action of April 7, 2006